

PHILMONT MOBILE RADIO CLUB
W3RQZ•W3TKQ•W3QV

BLURB NOVEMBER 1992




P.E.C.O. Presents..
POWER LINE SAFETY*



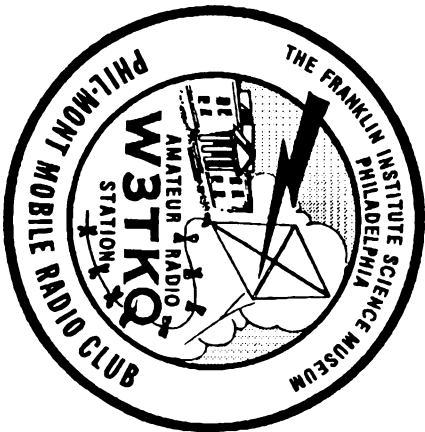
* *from the*
OL' TIMER'S NITE

A NEW
DANCE?
FROM
11N

THE BLURB

A Publication of

THE PHIL-MONT MOBILE RADIO CLUB, INC.
2113 EDGEHILL DRIVE, FURLONG, PA 18925



FIRST CLASS MAIL

is published monthly by, and for, the members of **The PHIL-MONT MOBILE RADIO CLUB, INC.** whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. Copying and quoting is permitted with a credit line. We gladly exchange publications with other amateur radio clubs; requests should be sent to the Editor. *BLURB* subscriptions are available to non-members for \$10.00 addressed to the Treasurer. The club meets at 7:30 PM on the first non-holiday WEDNESDAY of every month at The Franklin Institute Science Museum, Benjamin Franklin Parkway at 20th Street, Philadelphia. Use the Winter Street (north side) entrance.

ALL VISITORS ARE WELCOME!

Amateur Radio License Examinations - the first non-holiday Thursday of every month at The Franklin Institute Science Museum—doors close at 6:30 PM-SHARP!

CLUB INFORMATION

24-Hour Information Number at W3TKQ -(215) 448-1139
Repeater frequencies: 147.03 Hz (Roxboro input requires no PL)

PL required for off-site receiver (OSR) access:

Bucks County 131.8 Hz

Center City 103.5 Hz

Lansdale 114.8 Hz

444.80 MHz (186.2 Hz PL)

Simplex frequency: 147.51 MHz

Packet BBS frequency at W3TKQ-10: 145.05 MHz

Mailing Address: P.O. Box 88, Abington, PA 19001

STATIONS

W3QV - 147.03 MHz Repeater - 8200 Ridge Avenue, Philadelphia, PA - Trustee W3BBB

W3RQZ - 1176 Old York Road, Abington, PA - Trustee W3VVS

W3TKQ - The Franklin Institute Science Museum, Philadelphia, PA - Trustee W3PWG

LICENSED AMATEURS ARE ALWAYS WELCOME TO OPERATE W3TKQ.

OFFICERS

PRESIDENT: N3FVI, Bill Popovic, 343 Lemonte Street, Philadelphia, PA 19128 (215) 487-9472

VICE PRESIDENT: N3GLH, Brad Swanson, 517 Cresheim Valley Road, Wynmoor, PA 19118 (215) 836-2475

SECRETARY: WU3I, Steve Hoch, 4638 Oakland Street, Philadelphia, PA 19124 (215) 535-8061

TREASURER: KB3IV, Ed Masarsky, 15 Poe Avenue, Wyncote, PA 19095 (215) 572-5238

DIRECTORS

W3BBB (92); KC2HX (92); AK2I (93); W3IIM (A); K3KUD (A); N2RM (93); W3RM (A)

COMMITTEES

Archives:	W3IIN	Emerg. Coord.:	W3BBB	Repeater:	W3BBB
BLURB:	W3IIM	Membership:	W3IIN	Special Events:	KA3EBC
Budget /Audit:	W3IIN	Net Control:	KB3IV	VE Program:	ND3Q
Directory:	WB3KOJ	Program:	N3GLH	TVI:	-----
DX:	-----	Publicity:	N3IEI	W3TKQ:	W3PWG
Education:	N3FTZ	Refreshments:	N3FVI	Welcome:	-----

Special Liaison to The Franklin Institute Science Museum: AK2I

BLURB STAFF

Editor: W3IIM, Jack Haring, 2113 Edgehill Drive, Furlong, PA 18925
215-794-7623

Artist: Sam Kuncevich Labels: WB3KOJ Stamplicker: N3DHI Publisher/Typist: W3IIM
DEADLINE: To be assured of publication in the current month, all copy MUST be in the hands of the Editor at the Bored of Directors' Meeting!

NET SCHEDULE

SUNDAY	09:30	147.030	MHz FM	"SUNDAY MORNING 2 METER NET"
	10:00	28.993	MHz SSB	"10-ON-10 NET"
	10:20	3.993	MHz SSB	75 METER NET
TUESDAY	20:00	147.030	MHz FM	CW PRACTICE NET
LAST WED	20:00	147.030	MHz FM	W3TKQ OPERATORS' NET



APPLE BYTES

Don Gordon, WB3KOJ

NOVEMBER BIRTHDAYS

04 Rita DeSimone (XYL K3YOD)
Charlie Weigand - KA3EBC
05 Al Tribble - W3STW*
08 John Carbonaro - WA3TPH
12 Thom Burns - WK3K
Arnold Sadwin - KC2HX
13 Chuck Snyder - W2HSA
18 "Gil" Gilpin - W3SRU
19 Brad Swanson - N3GLH
22 Bill Popovic - N3FVI
24 Dolores Policarpo (XYL N3GMH)
25 Dusty Rhoads - ND3Q
27 Mel Toren - W2GMA
28 Joe Gallo - N3MUK*
29 Bob Namm - K2RRC
Bob Nicotera - KB2ERL*

* Indicates New Member

HELP PHIL-MONT

Are you planning to join the ARRL or renew your current membership?

Remember: The ARRL is more than just a magazine subscription!

Help Phil-Mont by joining or renewing through the club.

Contact Ed., KB3IV, for the details.

W3TKQ Operators' Net

The last Wednesday of every month.
Don't Miss It!

Hams and Fans!

John Mills

The Franklin Institute (home of The Phil-Mont Radio Club) has a newly revamped display Ham radio station (W3TKQ) on the 4th floor. It is manned continuously by volunteers from The Phil-Mont Radio Club, who explain the display in detail to those interested. Phil-Mont raised over \$50,000 in donations of cash, labor, and equipment, and the new W3TKQ is beautiful.

The 230 square foot room is dominated by a display style console that has a maximum capacity of seven simultaneous operators, loaded with all of the latest equipment covering nearly every mode of communication allowed.

Sadly, the majority of the equipment is of Japanese manufacture, because most of

the few American companies that produce amateur radio equipment today, either could not, or would not donate equipment, or were not able to sell equipment at cost.

W3TKQ made the July, 1992 cover of QST (the Amateur Radio magazine published by the American Radio Relay League), but the pictures do not do the station justice, and the article is only three pages long.

I would suggest that anyone interested in Amateur Radio or The Phil-Mont Radio Club, or interested in becoming an Amateur Radio Operator, either visit W3TKQ at The Franklin Institute, or call The Franklin Institute, and ask for the Amateur Radio display.

The Campus Lantern—Chestnut Hill Academy



The PREZ SEZ

Bill Popovic, N3FVI



It's election time again, and everyone is tired of all the hot air floating about in the presidential debates. Even if you think the best choice is none of the above, it's your duty to vote!

There are many other reasons why it's very important to get out and vote in every election. Some of those same reasons apply to the Phil-Mont elections coming-up soon.

If you can't come to the meeting and vote in person, please take a few minutes to read about the candidates, fill out your absentee ballot, and mail it.

I hope we can do better than the low national percentage of voter turnout, which is a major reason why politicians are as bad as they are.

Do your part in helping PMRC become a better club, VOTE!

Heard on the repeater: "A vote for Perot is a wasted vote."

The only "wasted" vote is the vote not cast!
Send a message... VOTE!

FYI

Parking meters at The Franklin Institute are now in operation from 8am until 8pm.

For piece of mind, consider using the underground parking garage. The charge for off-hours parking is only \$5, and it's only a warm and dry elevator ride to the meeting! Enter at 21st and Winter Streets.



Most members aren't that vocal about the club's elections!

LOOKAHEAD

Nov 4 **General Meeting Program:**
PECO

"Power Line Safety"
Ol' Timers' Night

Nov 5 License Examinations

Nov 11 Directors' Meeting at
AK2I's

Dec 2 **General Meeting**
Campaign Speeches
and Elections

Dec 3 License Examinations

Dec 16 Directors' Meeting at
N3GLU & KB3IV's

Jan 6 **General Meeting**

Jan 7 License Examinations

Jan 20 Directors' Meeting

HAMFESTS

Oct 25 **DUBLIN, PA**
R.F. Hill ARC
Note new location!

Jan 16 **FORT MYERS, FL**
Fort Myers ARC

Mar 21 **NEW CASTLE, DE**
Penn-Del ARC

NEWSLETTERS EXCHANGED

Baltimore Radio Amateur Television Society (BRATS)
Cherryville Repeater Association (NJ)
Delaware-Lehigh Amateur Radio Club (DLARC)
Delmont Radio Club
EASTLINK
Fort Myers Amateur Radio Club
Marple-Newtown Amateur Radio Club
Mid-Atlantic Amateur Radio Club (MARC)
Mobile Sixers Radio Club
Penn Wireless Association
R F Hill Amateur Radio Club
Reading Radio Club
Sussex Amateur Radio Ass'n (SARA) (Delaware)
Tompkins County Amateur Radio Club (New York)
Warminster Amateur Radio Club
Worldradio Magazine
Exchanges with additional parties are welcomed.

V.E. TEST LOCATIONS

Confirm all information, in advance, with the contact person. Licensed applicants must bring a their original license and one photocopy of it. All applicants, including children, must present positive ID. Also bring the original, and a copy, of any Certificate of Successful Completion needed to prove current status. The ARRL VEC's 1992 test fee is \$5.40; there is no charge for a Novice test.

Monthly, 1st Thursday
The FRANKLIN INSTITUTE
Dusty Rhoads, ND3Q
(215) 482-0386
(215) 879-0505

Monthly, 3rd Thursday
BELLMAWR, NJ
Bill Helmatag
(609) 546-7710

Irregularly
BRYN MAWR
Bob Lees
(215) 265-6032

Monthly, 1st Thursday
LEVITTOWN
Dave Heller, K3TX
(215) 946-1040
(215) 736-3333

Monthly, 3rd Wednesday
MORRISVILLE
Dave Munson, NM3K
(215) 788-7515

Monthly, 1st Monday
POTTSTOWN
Warren Erdman K3ZXQ
(215) 679-5764

Monthly, 3rd Monday
TELFORD
Warren Erdman K3ZXQ
(215) 679-5764

Monthly, Last Saturday
UNIVERSITY OF PA
Jeff DePolo, WN3A
(215) 898-8538
(215) 386-7199

Odd Months, Last Wednesday
WARMINSTER
Tom Michaud, WA3TQJ
(215) 343-3494

EMBASSY OF THE RUSSIAN FEDERATION
1125 16TH STREET, N.W.
WASHINGTON, D. C. 20036

Dear Sir: *BEN ROESHMAN*

Our Embassy is planning to hold two awards ceremonies at which we would present the commemorative medal "The 40th Anniversary of the Victory in the Great Patriotic War (World War II)". This prestigious medal will be awarded to American veterans who participated in the Allied convoys carrying supplies to Murmansk and Archangel.

The first ceremony has been scheduled for either October 7 or 15, 1992 aboard the Liberty Ship S.S. George W. Brown in Baltimore, Maryland. The second ceremony will be at the Russian Embassy on December 8, 1992.

If you are able to attend one of the ceremonies mentioned above to receive your medal, please let us know. If you will be unable to attend, we will be happy to mail your medal to you.

Please let us know your preference. You should contact our coordinator for these events, Mr. Yuri Menshikov.

Mr. Yuri Menshikov
Embassy of the Russian Federation
1125 16th Street, N.W.
Washington, D.C. 20036
tel. (202) 347-4392
Fax (202) 347-5028

We would appreciate a response by September 20, 1992. We will send you invitations to your preferred ceremony as soon as we receive your reply.

Sincerely, *Natalie P. Semenikhina*
Natalie P. Semenikhina
First Secretary

EMBASSY OF THE
RUSSIAN FEDERATION
1125 16TH STREET, N.W.
WASHINGTON, D.C. 20036

BEN ROESHMAN
1454 Braddock Lane
Penn Wynne, PA 19151

GALLUPS ISLAND RADIO ASSOCIATION, INC.



Editor:

During the 1943 WWII period I was radio officer on a Liberty Ship in convoy to Murmansk, Russia. (Also known as "The Dead Man's Run" and "Torpedo Alley.")

About a year and half ago the Russian government decided to issue a commemorative medal to all who made the convoy trip. I sent-in my documentation to, at that time, the USSR. Two days later the USSR split up. I never expected to hear from them again!

Lo and behold, Sept. 8, '92 I received the enclosed notice of medal presentation! It's interesting to note the over-stamp on the envelope as "Embassy of the Russian Federation," Consular Division, Washington, D.C.

Ben Roeshman, W3KLI



MINUTES

OCTOBER GENERAL MEETING

Steve Hoch, WU3I, Secretary



The 515th general meeting of the Phil-Mont Mobile Radio Club was opened by N3FVI at 7:42 p.m. There were 26 members and 9 guests. The guests were; Ted J. Braverman; Don DiGiovanni, N3NJI; Charlye Johnson, WN3PDB; James M. Durken, Jr., N3MYN; Denise Peart; Evan Hagerty, N3LPM; George Sellers, KB3AHQ; Leon DeFulgentis; and Woosup Lee, N3NDV.

KB3IV was absent due to the holiday, so all payments were being collected by WU3I. [negative balance—Ed]

KA3EBC reported on the great success of the Bikathon, and announced the date for 1993 of July 18. Don't say we didn't give you enough advance notice.

W3IIM reminded those present that November is Old Timers' Night, and he had some badges from 'IIN who couldn't attend.

AK2I announced that he had received confirmation of being on the list for the space shuttle for the next flight. At present we have 48 volunteers with only 30 active. Jake also reported on an ongoing project within The Institute on the subject of Edwin H. Armstrong who, in 1941, developed the regenerative circuit and the process of Frequency Modulation. Found in the bowels of The Institute's storage area were 15 boxes from 1941 containing

all Armstrong equipment (shades of Gerardo Rivera). The intent is to build an Armstrong exhibit in W3TKQ.

The typical Novice Station is almost complete, thanks to the estate of W3LEM for the Kenwood TS-820S.

To the folks who made an issue of "Ben Franklin" playing with Japanese radios on the cover of QST, the American manufacturers were approached to donate, but they could not afford to because of the economy. However, the folks at Ten-Tec have seen fit to give us a good price on an Omni-VI for the guest operating position, payable by the cash donations made.

Jake unveiled for purchase, a 9x12 photograph taken by Jules, N3IZZ, of the 26 foot console at W3TKQ. It is a beauty. At the meeting there were 20 copies available. Contact AK2I.

As the nominating committee chairman, Jake announced that he needed members with at least one year of service, to run for President and Treasurer.

The attendance was taken by Ben, KA3WWK, and the 50-50 was sold by W3STW and drawn by WT3P. The lucky winner was N3MYN, Jim.

AK2I introduced WT3P, Kay Craigie, our ARRL Atlantic Division Vice Director.

MINUTES

OCTOBER DIRECTORS' MEETING

Steve Hoch, WU3I, Secretary

The meeting was opened on the arrival of N3FVI at 8:26 p.m., at the home of N3FTC & WU3I. Attending were W3BBB, N3DHI, K3KUD, KB3IV, WU3I, N3FVI, W3IIM & IIN, W3AA, WA3YJR, KC2HX, N2RM, N3GLH, W3GQD and his wife Jackie.

KB3IV reported that the treasury had income almost 3 times that of expenses, and we were in good shape for October. Ed also mentioned that we have had an influx of new members every month this year.

W3IIN reported on the receipt of many new (old) items for the archives from a number of senior members. Also mentioned was the need to have BBB extend their basement under the neighbor's property for storage of said archives.

W3IIM reported in the absence of the nominating committee chairman, that the ballots need one more candidate for president.

The club has received its renewal sticker for the Special Services Club designation, also received from WT3P, Kay Craigie, for the ARRL, a certificate for 25 years membership (given to all clubs with 25 or 50 or more years service.) PMRC has 42 years.

The monthly *BLURB* printing is up to 200 and we had only 2 left after the general meeting. The consensus was to increase the count.

As a reminder, the November general meeting is Old Timers' Night.

Many thanks to WT3P for the excellent presentation at the last general meeting. It was suggested we reserve one night a year for the ARRL to send a speaker.

An observation was made that the club

does not advertise enough, such as having newsletters in the local ham stores like other clubs. Also, obtaining a list of newly licensed hams and extending invitations to attend meetings was proposed.

W3IIN announced that there was one new member to vote on; John DiGiovanni, N3LUD. W3BBB made the motion to accept, K3KUD seconded; the motion was passed. Ginny announced that there was one application to publish next month.

We need one more operator for the CW nets. Anyone interested should contact Dick, W3RM.

W3BBB reported on the repeater status. The actual location of the Center City input was revealed on the September Volunteers' Net as the top of One Parkway, courtesy of our very good friends at Bell of Pennsylvania. Jim also stated that Bell has assured us we will be the only service of any kind on the building. A letter to Robert M. Valentini, president and C.E.O., was read, thanking him for his and his staff's cooperation.

The receiving antenna in Southampton was raised to eliminate a suspected reflecting problem.

W3IIM requested that we have a ream of paper printed with the club letterhead and emblem. The motion was passed.

W3BBB reported that he is having problems getting in touch with the frequency coordinators. Jim has called and written on numerous occasions, and has had no response. The next step is to request assistance from WT3P and the ARRL.

Motion to close the meeting at 9:30 by N3FVI, K3KUC seconded, motion passed. Thanks to N3FTC for the Goodies.

FOR SALE

From Estate of Edward McVaugh, W3LEM

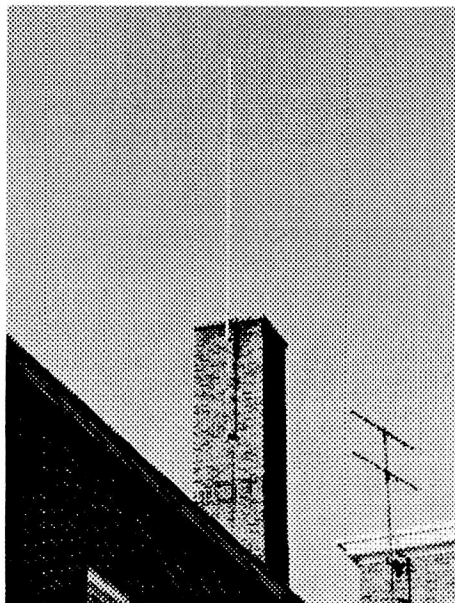
National NC 300 receiver w/ manual and speaker	\$ 25
Motorola T-43 transceiver on 147.03/63 w/PS & Manual	10
Regency MR 10B, tuneable VHF FM receiver w/manual	10
Monitoradio MRC 33, xtal controlled low band FM rcvr	10
Johnson Messenger 10 mtr AM transceiver w/manual	10
Heath 2036A 2 mtr FM transceiver, synthesized w/manual	50
MFJ model 817, SWR bridge	15
B&W coaxial antenna switch, 3 position	10
Kenwood SWT-1, VHF ant tuning unit	15
RCA WV-77A Volt Ohmist, VTVM	5
Drake TR 72, 2 mtr mobile transceiver w/manual and mike	25
B&W trap wire antenna, 80-40-20	15
24 hour clock, 12" dia, 110 v AC	5
Rohn # 6 tower, 20 ft incl. taper top and tilt base	40
Mini-Quad Beam, 10-15-20, w/manual	40
Alliance Tenna Rotor U-110, w/manual and control head	15
Archer Rotator 15-1225, w/manual and control head	15
MFJ Versa-Tuner II, 300 W, 160-10 mtrs. w/manual	75
10 Mtr vertical coaxial antenna	10
Cushcraft 148-4, 2 mtr beam, 4 element, 144 mhz	10
Eico #706 code practice oscillator, battery operated	5
Johnson #114 semi-automatic key	10
MFJ model 816 SWR bridge	15
Straight CW key	5
B&W model 550A coaxial switch, 5 position	10
Kenwood 711A, 2 mtr all-mode transceiver, w/ manual	400
Kenwood MC 60 microphone	50

Contact Jim Spencer W3BBB, 215-362-5172

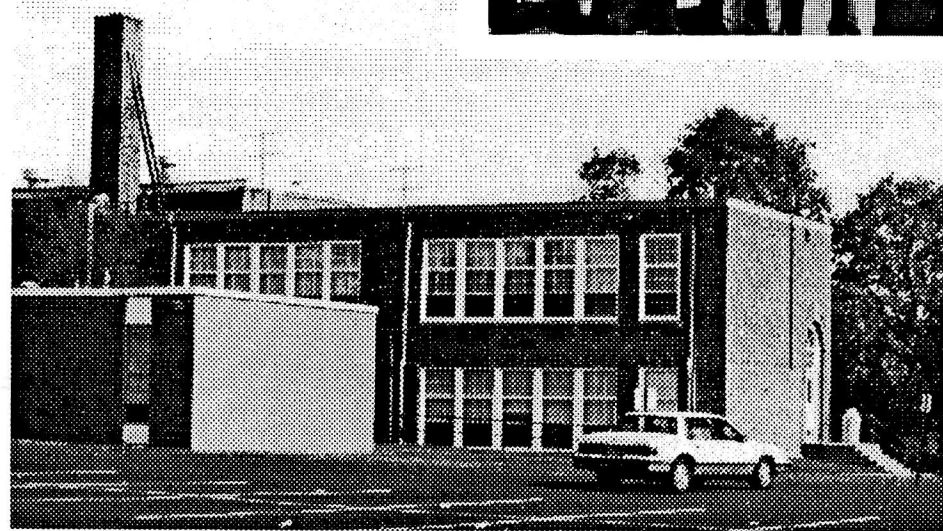
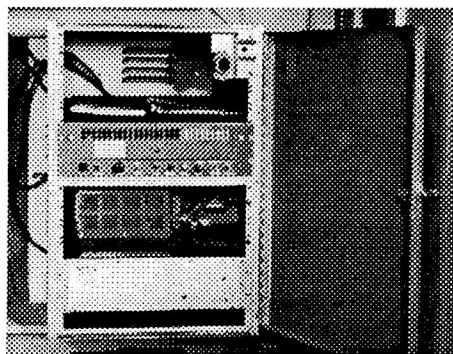
"DON'T TAILGATE—WAIT"—for the courtesy chime!

Bucks County Off-Site Antenna Gains Altitude

Photos by Sam Smith, K3GBA



W3BBB (with pipe and crowbar), W3IIM & N3DHI increase height of antenna at CHI Institute in Southampton.



The American Radio Relay League, Inc.

HEADQUARTERS, NEWINGTON, CONNECTICUT, U. S. A.

Charter of Affiliation

25 YEARS

Whereas it is the desire of the American Radio Relay League to establish bonds of affiliation with non-commercial amateur radio organizations of kindred aims and purposes to make possible unity of action in matters affecting the welfare of Amateur Radio and lend mutual strength; and **Whereas**

PHIL-MONT MOBILE RADIO CLUB

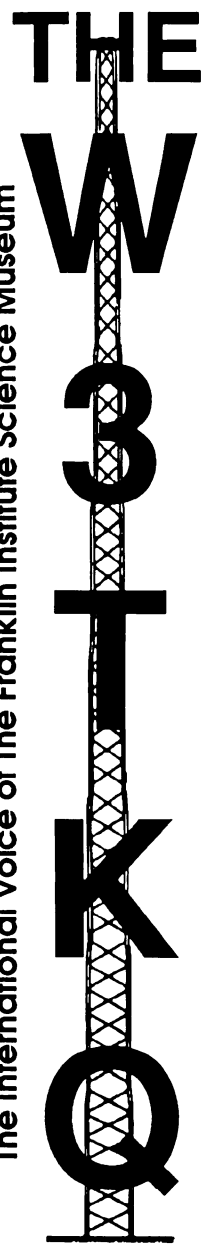
has declared its sympathy with and allegiance to the aims and policies of the League in its efforts to strengthen and advance Amateur Radio Communication and Experimentation, and has expressed its willingness and desire to cooperate therein:

Now Therefore, under the policies of its Board of Directors, the American Radio Relay League as of this date hereby declares the said organization to be an affiliated body, and issues this charter in token thereof.

OCTOBER 6, 1950
Affiliated

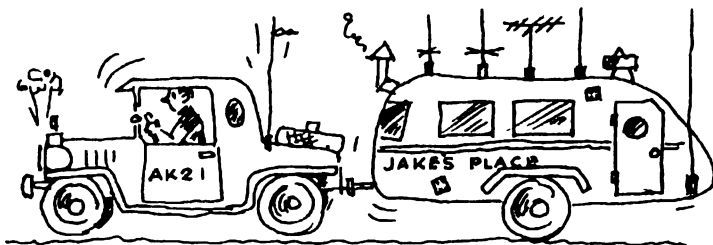
David S. Smith
Secretary

Joseph P. Smith
President



REPORT

by
Jake Kovalchek,
AK2I



Jake's on vacation. His regular article will return next month.

AMATEUR ANTENNA SYSTEM "LEGAL" WORRIES?

By Ron Johnson/WE7H *UBET ARC*

Recently, I had a water damage claim denied by my insurance company for a minor mistake on my part as a home-owner. After worrying about this for endless nights, a "what if" scenario has entered my mind: What if lightning hit one of my antennas and I did not "meet code" and my insurance company denied any claims? What if not only my equipment was frizzled but my home also burnt to the ground leaving only my chimney standing? What if the resultant fire caused damage to my neighbor's property? I don't want to end-up in jail, and my family without a dwelling because of some code or requirement I failed to meet. What should I do?

I found a current copy of "the national electrical code," which is based upon the new edition of the "NFPA 70 National Electrical Code," the nation's most authoritative and comprehensive document on electrical safety addressing safety from fire and electrocution.

Since 1897, the NEC has been the industry standard for electrical safety in the United States. In offering a summary of the article 810 "amateur transmitting and receiving stations-antenna systems," I want to emphasize that I am not offering any legal requirements or advice... just a quotation of the best code available to hams. (It sure beats disconnecting your antenna lead-in cables and placing them in a milk bottle to avoid lightning damage as some people actually do.) Most of what I quote is obvious to many, and there are additional measures many hams take to protect their homes and equipment, but a review won't hurt any of us!

Most of us use coax for feeding our antennas, but the code addresses non-shielded wire feeders also. Many of us now use or will someday use twin lead, ladder-line or end fed wires. Read on...

Antenna wire size (or lead-in size): Less than 150 foot span—



NEW MEMBER APPLICATION

CALL:	N3NDV
NAME:	Woosup Lee
HANDLE:	
CLASS:	Technician
ADDRESS:	6047 N. American Philadelphia, PA 19120
HOME PHONE:	(215) 924-7119
BUSINESS PHONE:	(215) 457-1000
OCCUPATION:	Dry Cleaner
INTERESTS:	

THANK YOU....

to all the operators who contributed their time and equipment for the M.S. 150 Bike Tour, I would like to thank you for your support. The ride this year was a great success, as 3,500 riders raised over \$800,000 to help find a cure for M.S.

The Phil-Mont Radio Club had 10 members participate over the 2 days of the tour, and all agreed that they had a good time. Their names and calls are Dave, N3KGG; Jim, N3GEN; Bob, KB2ERL; Ben, KA3WWK; Wally, K3JJO; Sal, NS3Y; Bill, N3FVI; Bob, W3YLT; Aaron, KD4PWG; and Charlie, KA3EBC.

We hope to see all of you again next year, and we would like to see more of our club members come out and help us. Thank you again from myself and The National M.S. Society.

Charlie, KA3EBC



You cannot bring about prosperity by discouraging thrift. You cannot strengthen the weak by weakening the strong. You cannot help the wage earner by pulling down the wage payer. You cannot further the brotherhood of man by encouraging class hatred. You cannot help the poor by destroying the rich. You cannot keep out of trouble by spending more than you earn. You cannot build character and courage by taking away man's initiative and independence. You cannot help men permanently by doing for them what they could and should do for themselves.

Abraham Lincoln

New Radio Club Formed in Philadelphia Area

Employees of SEPTA who are hams have organized an Amateur Radio club. Their address is SEPTA ARC, P.O. Box 47573, Philadelphia, PA 19160.

MARC's Remarks

CLUB INFORMATION

24 Hour Information Number at W3TKQ
(215) 448-1139

90TH MONTHLY VE SESSION STATISTICS OCTOBER

13 candidates pass 9 elements
3 new amateurs plus 4 upgrades

VE team members:

Dusty Rhoads, ND3Q, Chairman

Bob Wilcox, KE3CZ; George Starks, AA2FU; Steve Hoch, WU3I;
Joel Kleinguenther, KA3SWU; Larry Clifford, W3UY; Sal Valente, NS3Y

AMATEUR LICENSE EXAMS HELD ON THE FIRST
NON-HOLIDAY THURSDAY OF EVERY MONTH
Registration begins at 6:00 PM

Doors close at 6:30 PM sharp

THE FRANKLIN INSTITUTE
SCIENCE MUSEUM

For Information Call ND3Q at
(215) 482-0386 or 879-0505

Accessible by the handicapped.



Sams
OTHER
CORNER

LOOKS LIKE
BBB & KUD
HAVE A TALL
JOB* TO DO

*INSTALL THE OFF-SITE
RECEIVER



hard drawn copper 14 awg minimum, copper clad steel 14 awg minimum; greater than 150 foot span—hard drawn copper 10 awg minimum, copper clad steel 12 awg minimum.

Building clearance (antennas and lead-in): Firmly mounted at least 3 inches clear of building surfaces on nonabsorbent supports, such as treated pins or brackets equipped with insulators having not less than 3 inch air gap. Note: where the lead-in conductors are in a metallic shield (coax) that is permanently and effectively grounded, the requirement is waived. However, lead-ins shall be so located as to make accidental contact with them difficult.

Building entrance: Except where coax is used (and the shield is permanently and effectively grounded), lead-in conductors for transmitting stations shall enter buildings by one of the following:

1. Through rigid noncombustible, nonabsorbent tube or bushing
2. Through an opening providing firm, secured minimum 2 inch clearance
3. Through a drilled window pane, copper-clad steel, bronze or corrosion resistant material. Insulation of grounding conductors is not required, but they must be securely fastened and should be protected from physical damage. Grounding conductors for an antenna mast or antenna discharge unit shall be run in as straight a line as practicable to the grounding electrode.

Grounding electrode(s): The grounding conductor shall be connected to the nearest accessible location on the building grounding electrode, the grounded interior metal water piping system or the power service ground. The grounding conductor can run inside or outside the building, and shall not be smaller than no. 10 copper or no 8 aluminum or no. 17 copper-clad steel. Note: a single grounding conductor shall be permitted for both protective and operating purposes.

Antenna masts are required to be grounded to the same grounding electrode used for the electrical service used for the electrical system of the building. (This is necessary to assure all exposed dead metal parts are at the

same potential). In many cases, masts are (incorrectly) connected to conveniently located vent pipes, metal gutters, and downspouts. This could create potential (voltage) differences between various metal parts of the building and lead-in conductors, resulting in possible shock and fire hazards. Gas piping systems are not permitted to be used as the required grounding electrode. Where multiple grounding electrodes are used, they must be bonded with jumpers not smaller than no. 6 copper.

Interior installation—transmitting stations: All conductors inside the building shall be separated at least by 4 inches from the conductors of any electric light, power, or signaling circuit. (Note: this requirement holds true for coax also!)

Equipment grounding: All metallic parts shall be effectively connected to ground, including all external metal handles and controls accessible to operating personnel.

Supports: Antennas and lead-ins shall be securely supported, and shall not be attached to the electric service mast, or to poles carrying open wires of over 250 volts between conductors. Note: antennas or lead in wires shall not cross over open conductors, and side clearance of at least two feet shall be maintained (remember to consider swinging in the wind).

Whew.... That's a lot to take-in, but it really is basic, and it all makes sense. Much of this material is also outlined in the "ARRL Handbook."

Not meaning to cause undue concern, how many of you have reviewed the safety, legality and adequacy of your A.C. main feeder system to and within your shack? When I was a youth and still living at home, my mom refused to dust, touch or even get near my equipment.... I can't blame her now that I remember my maze of wires. One of my worst electrical shocks was a result of simultaneously touching two pieces of ungrounded equipment which turned out to be at different ground potential—knocking me across the room, making me wonder how I got on the floor laying against the wall!

GOOD SAFETY TO YOU, AND 73...
from ARRL TBBS

1992

NOVEMBER

1992

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS AK2I 10M NCS ANYONE 75M NCS W3PWG	2 W3PWG WU3I K3VXU	3 N3ALW W2GMA W3STW WT3P WU3I NS3Z CODE PRACTICE NET at 8 PM <i>Election Day</i>	4 WA3AUN N3AXJ K3PHC GENERAL MEETING at The Franklin Institute Refreshments at 7:00 PM Meeting starts after 7:30	5 N3FVI AK2I LICENSE EXAMS at The Franklin Institute Registration begins at 6:00 Doors close at 6:30 PM <i>sharp!</i>	6 WU3I W3LKI NS3Z	7 AG2H K3JJO K3TEF W3YLT
8 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS N3FTY 10M NCS ANYONE 75M NCS W3AOA	9 W3PWG WU3I K3VXU	10 N3ALW W2GMA W3STW WT3P WU3I NS3Z CODE PRACTICE NET at 8 PM	11 WA3AUN N3AXJ K3PHC DIRECTORS' MEETING at AK2I's <i>Veteran's Day</i>	12 N3FVI AK2I	13 WU3I W3LKI NS3Z	14 N3GMH AG2H K3TEF KA3WWK NS3Y <i>Sadie Hawkins Day</i>
15 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS K3JJO 10M NCS ANYONE 75M NCS W3RCE	16 W3PWG WU3I K3VXU	17 N3ALW W2GMA W3STW WT3P WU3I NS3Z CODE PRACTICE NET at 8 PM	18 WA3AUN N3AXJ K3PHC	19 N3FVI AK2I	20 WU3I W3LKI NS3Z	21 N3GMH AG2H K3TEF KA3WWK NS3Y <i>Sweetest Day</i>
22 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS NS3Y 10M NCS ANYONE 75M NCS AK2I	23 W3PWG WU3I K3VXU	24 N3ALW W2GMA W3STW WT3P WU3I NS3Z CODE PRACTICE NET at 8 PM	25 WA3AUN N3AXJ K3PHC  OPERATORS' NET at 8 PM	26 N3FVI AK2I	27 WU3I W3LKI NS3Z	28 N3GMH AG2H K3TEF KA3WWK NS3Y
29 AA2FU N2JFF WB3JUA WT3X NS3Y KT3Z 2M NCS W3BBB 10M NCS ANYONE 75M NCS W3HFX	30 W3PWG WU3I K3VXU Hurricane Season Ends Winston Churchill 1874			Conservative: One who believes that nothing should be done for the first time.		